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W.U. H. Syed and L. Li, "Effects of wire feeding direction and location in multiple layer **diode laser direct metal deposition**," Appl. Surf. Sci. ...  
link.aisp.org/link/?JLAPEN/18/65/1 - Similar pages

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 ... were grown using the two-flow **metal-organic chemical** ... in this way were measured under **direct current (dc)** ... and G. Fasol, The Blue **Laser Diode** (Springer, Berlin ...  
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Improved thin films of pentacene via pulsed laser deposition at elevated substrate temperatures - all 3 versions »

AJ Salih, SP Lau, JM Marshall, JM Maud, WR Bowen, ... - Applied Physics Letters, 1996 - link aip.org  
 ... in the pentacene films and suggests a **direct** correlation between ... **Laser deposition**. ...  
 Changes in **diode** characteristics were observed following postmetallization ...  
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AJ Pinkerton, L Li - Journal of Physics D, Applied Physics, 2004 - iop.org  
 ... **Laser direct metal deposition (DMD)** allows additional material of full density ... by the wavelength of the **laser** radiation (whether using a **diode**, Nd:YAG ...  
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Mechanistic Studies of Chemical Vapor Deposition - all 2 versions »

JM Jasinski, BS Meyerson, BA Scott - Annual Reviews in Physical Chemistry, 1987 - Annual Reviews  
 ... ignored, and mech- anisms based on **direct** interaction of ... of metals, with the techniques of **metal-organic chemical** ... Using an excimer **laser**, Higashi et al (84, 85 ...  
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Fabrication of organic light-emitting diode pixels by laser-assisted forward transfer - all 3 versions »

R Fardel, M Nagel, F Nüesch, T Lippert, A Wokaun - Applied Physics Letters, 2007 - link aip.org  
 ... To avoid **direct laser** damaging, an additional dynamic release layer (DRL ... corresponding to the spot of the **laser** beam. A **diode** pixel in operation is shown in Fig ...  
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CL Chen, JG Black, LJ Mahoney, SP Doran, WE ... - Electronics Letters, 1987 - ieeeexplore.ieee.org  
 ... prediction for a single-mode **laser diode** under microwave ... by the scanning electron beam, a **metal** film is ... **Laser-direct-written** Si and W lines have already been ...  
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Cooling structures and package modules for semiconductors - all 5 versions »

P Buchmann, P Unger, P Vettiger, O Voegeli - US Patent 5,287,001, 1994 - freepatentsonline.com  
 ... layer to said heat sink, thereby providing said **direct** cooling of ... 8 is a schematic cross-section of a **diode laser** with 45 ... 9, showing metallization of a **laser**. ...

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RG Hunsperger, JH Park - US Patent 4,773,074, 1988 - freepatentsonline.com

... can be coupled to fibers either by **direct** butt-joint ... of an optical integrated circuit, the **diode** can be ... The dual mode **laser**/detector device of the invention ...

Cited by 7 - Related Articles - Cached - Web Search

**Self-aligning silicon groove technology platform for the low cost optical module** - all 2 versions »

MH Choi, HJ Koh, ES Yoon, KC Shin, KC Song - Electronic Components and Technology Conference, 1999.

1999 ..., 1999 - IEEE Xplore IEEE.org

... with SiN<sub>x</sub> film by PECVD to avoid a **direct metal** to silicon ... SEM pictures of the processed silicon optical benches for **laser diode** and photo **diode** modules. ...

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MM Moselehi - US Patent 5,270,222, 1993 - freepatentsonline.com

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I Miyamoto - RIKEN REVIEW, 2003 - riken.go.jp

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### [CITATION] Fast forward for optoelectronics?

G Palmkog, T Ericsson - VDI/VDE-Technologiezentrum Informationstechnik GmbH NEXUS-...

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Reduction of the noise power in rare-earth-doped fiber lasers bybroadening the **laser linewidth**

C Headley, S Grubb, T Strasser, R Pedrazzani, BH ... - Optical Fiber Communication, OFC 97., Conference on, 1997 - [ieeexplore.ieee.org](#)

... H. Muendel,\* Lucent Technologies, Bell Labs **Innovations**, 600 Mountain Avenue, Murray Hill, **New Jersey** 0 ... 1. Light from a SDL high- power **diode** unit is ...

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**PDF** **Laser application in high temperature materials**

RW OHSE - Pure and Applied Chemistry, 1988 - [iupac.org](#)

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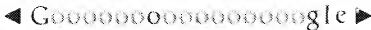
Combined research and curriculum development of nontraditional manufacturing - all 6 versions »

Y LAWRENCEYAO, GJ CHENG, KP RAJURKAR, R KOVACEVIC, ... - European Journal of Engineering Education, 2005 - [ingentaconnect.com](#)

... To prepare a **new** generation of ... with the module of cross process **innovations** and NTM Animation ... Short pulse high density **laser** machining • **Diode** pumped **laser** ...

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MJ Kim, S Mukherjee, JC Young - Electron Devices, IEEE Transactions on, 1991 - [ieeexplore.ieee.org](#)  
 ... at 180 K). The wavelength coverage of these **diode** lasers is ... time of 250 ns [3].

Structural **innovations** that have ... In this paper, a **new** three-terminal power field ...

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J Canning, N Groothoff, E Buckley, T Ryan, K ... - Optics Express, 2003 - [opticsinfobase.org](#)

... Centre, University of Sydney, 206 National **Innovation** Centre, ATP ... The **laser** is **diode**  
 pumped at 980nm and evidence of dual ... crystal fibre lasers are a **new** area of ...

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Cross relaxation and energy transfer upconversion processes relevant to the functioning of 2 µm ... - all 4 versions »

SD Jackson - Optics Communications, 2004 - Elsevier

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 Centre, Australian ... the output characteristic for a **diode-cladding** pumped Tm 3 ...

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**[CITATION]** HARD PLASTIC CLAD SILICA OPTICAL FIBERS-The First Decade

BJ Associates - Proceedings of Optical Fibers in Medicine VIII: 19-20 ..., 1993 - Society of Photo Optical

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150 mW fundamental-transverse-mode operation of 670 nm window laserdiode - all 4 versions »

S Arimoto, M Yasuda, A Shima, K Kadoiwa, T ... - Quantum Electronics, IEEE Journal of, 1993 -  
[ieeexplore.ieee.org](#)

... front was designed to be located at the middle of the n-type **cladding** layer, which  
 can be ... 3 shows the schematic drawing of the window- structure **laser diode**. ...

Cited by 23 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Laser-to-fiber coupling - all 2 versions »

JA Bullington, RA Stoltz, L Vaissie, EG Johnson, ... - US Patent 7,194,016, 2007 - [freepatentsonline.com](#)

... Generally all the **innovations** herein incorporated can be ... Springer-Verlag Berlin  
 Heidelberg New York. ... Traditionally, edge-emitting **laser-diode** chips optically ...

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Growing of bulk crystals and structuring waveguides of fluoride materials for laser applications  
 - all 5 versions »

R Burkhalter, I Dohnke, J Hulliger - Progress in Crystal Growth and Characterization of Materials, 2001 - Elsevier

... As mentioned before, **diode** pumpable solid state lasers are ... combined with the latest  
 technical **innovations** used for ... useful in the search for **new** crystals, since ...

Cited by 19 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[CITATION] The optical computer: can the European **laser** and electro-optics industry keep us in this **new** ...

SU MMARY - Science and Public Affairs, 1986 - Royal Society

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### Intelligent **Laser** Processing

D Sprentall - ale.net

..., 1994 The Baden-Württemberg region **innovation** prize 1995 ... technology required, resulted in a **new** Flexible Manufacturing ... **cladding** with Nd:YAG and **diode** lasers up ...

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[CITATION] 30% power conversion efficiency from a ring-doping all-silica octagonal Yb-free **double-clad** fiber ...

P Bousselet, F Leplingard, C Simonneau, C Moreau, ... - Optical Amplifiers and Their Applications, 2001 - Optical Society of America

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